

SCV/142-2-5-2/19

The Influence of Positive Ions on the Shaping of Intensive
Electron Beams Under High Vacuum Conditions

Yu.A. Katsman Ref 11, V.I. Volosok, B.V. Chirikov
Ref 22 and 12 papers of foreign scientists. The review of these papers shows that the elementary theory of electron stream neutralization by ions developed at the present time does not explain all phenomena occurring in the region of ion accumulation. The principal conditions of this theory cannot be used for designing electron-optical systems with ion traps. It is necessary to develop a more precise theory of ion accumulation under high vacuum conditions. Additional experimental investigations in this field are required. The publication of this paper was recommended by the Kafedra radioperedayushchikh ustroystv (Radio Transmitter Department) of the Kiyevskiy ordena Le-nina politekhnicheskiy institut (Kiyev - Order of Lenin - Polytechnical Institute). There are 6 sets of diagrams, 1 circuit diagram, 2 sets of graphs, 4 graphs, Card 2/3 ✓

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The Influence of Positive Ions on the Shaping of Intensive
Electron Beams Under High Vacuum Conditions

22 references, of which 11 are Soviet, 8 English
and 3 German.

SUBMITTED: January 7, 1959

Card 3/3

SOV/142-2-5 15/19

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AUTHOR: Taranenko, V.P., Docent

TITLE: Defense of Dissertations
Dissertations for Obtaining the Scientific Degree of
Candidate of Sciences

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,
1959, Vol 2, Nr 5, pp 629 - 630 (USSR)

ABSTRACT: On 20 April 1959, K.Ya. Lizhdvoy defended his candidate's
dissertation "The Experimental Investigation of a Gen-
erator Producing an Undelayed Return Wave With Trans-
verse Interaction". Scientific supervisor was Correspon-
ding Member of the AS. UkrSSR, Doctor of Technical
Sciences, Professor S.I. Tetelbaum (deceased). Official
opponents were Professor V.V. Ogiyevskiy and Candidate
of Technical Sciences Z.I. Taranenko. K.Ya. Lizhdvoy per-
formed an experimental investigation of a generator in
which the electron flow takes place in crossed con- ✓
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ANV/142 Rev 1st

Defense of Dissertations -
Dissertations for Obtaining the Scientific Degree of Candidate
of Sciences

stant electric and magnetic fields, interacting with
an undelayed electromagnetic wave. The generator pro-
vides an even returning of the wavelength from 4 to
18 cm at an output power of 1 watt. The dependence of
the wavelength of the generator on the space charge
magnitude was investigated experimentally. The prob-
lem of the transverse widening of the electron beam by
space charge forces was studied and a formula was
derived for calculating the necessary accelerating voltage.
The results of this work were explained in the periodi-
cal "Radiotekhnika i elektronika", 1959, 4, 1, 106;
1959, 3, 2, 212. - On 22 June 1959, Chzhan Tsin' T
chzhin defended his candidate's dissertation "The In-
vestigation of Requirements of Frequency-Phase Charac-
teristics of a Communications Channel in the Optimum
Amplitude-Phase Modulation System" Scientific report ✓

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307/140-2-5-17/13

Defense of Dissertations -
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of Sciences

visors were Corresponding Member of the AS USSR SSSR,
Doctor of Technical Sciences, Professor S. I. Vatutin,
baum (deceased) and Candidate of Technical Sciences
L.V.Kasatkin. Official opponents were Professor V. V.
Ogiyevskiy and Candidate of Technical Sciences, Professor
Akalovskiy. In 1958/59, Professor S. I. Vatutin
(deceased) suggested the OAFM method (method of opti-
no amplitudno-fazovoy modulyatsii - optimum amplitude-
tude-phase modulation method) which reduces by 1.5-2
times the spectrum width of the signal to be transmitted,
compared to the conventional amplitude modulation, and
provides an undistorted reception by conventional re-
ceivers with amplitude detection. In the dissertation,
the permissible frequency and phase distortions in
individual transmitter elements and the permissible

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307/142-P-13/13

Defense of Dissertations -
Dissertations for Obtaining the Scientific Degree of Candidate
of Sciences

distortions in functional conversion circuits were determined for different methods of such conversions in OAFM systems. A new possibility of functional conversion in OAFM systems was suggested, using a device performing a phase shift by $7\pi/2$ of the frequency components of the logarithm of the modulated program. The investigation of requirements of phase-frequency characteristics of a communication channel in the OAFM system showed the possibility of practical realization of the optimum modulation method without essential reconstruction of transmitter equipment and existing broadcast receivers.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut
(radiotekhnicheskiy fakultet) Kiyev - Order of Lenin-
Polytechnical Institute (Faculty of Radio Engineering)

Card 4/4

24349

S/142/60/005/005/006/015
E192/E382

94230

AUTHOR: Taranenko, V.P.

TITLE: Taking Into Account the Dynamic Operating Conditions
for Determination of the Focussing Magnetic Field in a
Travelling-wave Tube

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Radiotekhnika, 1960, Vol. 3, No. 5, pp. 486 - 490

TEXT: Various works dealing with the problem of a magnetic
focusing of high-power electron beams have considered the case
of static operating conditions although this simplification is
not always justifiable. An attempt is made in the following to
take into account the dynamic operating conditions in the
evaluation of the focusing field of a travelling-wave tube
(TWT) with a periodic waveguide. In the interaction region a
bunched beam moves in a high-frequency electromagnetic field
whose components are expressed by:

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E192/E382

Taking Into Account

$$\left. \begin{aligned} E_z &= E_0 f(z) J_0(\zeta r) \\ E_r &= j E_0 f(z) \frac{1}{\zeta} J_1(\zeta r) \\ H_\varphi &= j E_0 f(z) \frac{k}{\zeta} J_1(\zeta r) \end{aligned} \right\} e^{-j(\omega t - \tau)}, \quad (1)$$

where z, r, φ are cylindrical coordinates and

$$k = \frac{2\pi}{\lambda}; \quad \gamma = \frac{2\pi}{\beta\lambda}; \quad \tau = \sqrt{\gamma^2 - k^2}; \quad \beta = \frac{v}{c}; \quad (2);$$

E_0 is the amplitude of the electric field,

v is the phase velocity of the wave,

c is the velocity of light, and

J_0, J_1 are Bessel functions of the first kind of an imaginary argument.

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2192/E582

Taking Into Account

The function $f(z)$ determining the field distribution along the axis of the system depends on the conditions of interaction of the electron with the field and the change in the parameters of the waveguide system. It is seen that the quantities E and H vary along the system (Fig. 1) as well as over the cross-section of the transit aperture (Fig. 2). The electrons of a bunch are subjected to very complex interaction and the equation of their motion can be constructed under certain simplifying assumptions. These are:

- 1) the electrostatic collision forces are determined by the formulae valid for an infinite parallel beam of constant charge density;
- 2) all electrons of the beam move with constant velocity;
- 3) the metal walls do not influence the electrostatic collision Coulomb forces in the beam;
- 4) the change in the current density along the axis of the beam is determined by the bunch function $\psi(z)$;
- 5) The Coulomb forces for the electrons of the beam in the longitudinal direction are neglected.

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Taking Into Account

Under these conditions the equation of motion of a boundary electron of the bunch for the radial direction is in the form:

$$m \frac{d^2r}{dt^2} = e \left\{ E_0 f(z) J_1(\beta r) \frac{1 - \beta \frac{v_t}{c}}{\sqrt{1 - \beta^2}} \sin \psi + \frac{2I_\phi(z)}{rv_s} \left[1 - \left(\frac{v_t}{c} \right)^2 \right] \right\} - ev_s H_s \quad (5)$$

where ψ is the angle of displacement of the electrons relative to the maximum of the decelerating field. However, even this simplified equation is so complex that its accurate solution is not possible. If it is assumed, however, that the beam current is equal to nI_0 (and this assumption is justifiable) the resulting radial field which takes into account the space charge is expressed by:

$$E_R = E_{r,\phi} = +0.95 \frac{nI_0}{r_s \sqrt{U_s(1-\epsilon)}} \quad (1)$$

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E192/E382

Taking Into Account . . .

where η is the energy-utilisation coefficient for the electrons,
 r_0 is the radius of the electron beam, and
 U_2 is the accelerating voltage.

In the above equation it is assumed that $n = 3$ for the region inside a bunch and $n = 0.5$ for outside the bunch. It is now necessary to determine the magnetic field required for "balancing" the radial force produced by the electric field E_R . For this purpose, the radial motion of an electron in a uniform magnetic field in the presence of E_R is considered. It is shown that the "balancing" magnetic field is:

$$B_z = 148.6 \sqrt{E_R/r_c}$$

In general, it is necessary to determine two values of B_z : one of these, B_{z1} , is determined from the compensation condition

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Taking into Account . . .

for the defocusing forces in the bunched region, while the second component, B_{z_2} , is evaluated from the condition of

bunch boundaries in the region of maximum magnetic fields. The above approximated evaluation of the magnetic focusing field for the TWT was found to be sufficiently accurate in practice since it permits calculation of the field with an error of about 30%. There are 5 figures and 5 references: 2 Soviet and 3 non-Soviet. The three English-language references quoted are: Ref. 1 - L. Brillouin, Phys. Rev., 1945, 67, 260; Ref. 2 - A.L. Samuel, PIRE, 1949, 37, No. 9, 1252; Ref. 3 - C.C. Wang, PIRE, 1950, 38, No. 2, 135.

ASSOCIATION. Kafedra radioperedayushchikh ustroystva
Kiyevskogo ordena Lenina politekhnicheskogo
instituta (Chair of Radio-transmitting Devices
of the Kiev "Order of Lenin" Polytechnical
Institute)

SUBMITTED: April 30, 1960

Card 6/7

ZINCHENKO, Nikolay Semenovich; KALININ, V.I., prof., retsenzent [deceased];
TARANENKO, V.P., dotsent, retsenzent; SHESTOPALOV, V.P., dotsent,
retsenzent; CHERNYAYEV, L.K., kand. tekhn. nauk, ~~prof.~~, red.; TRET'YA-
KOVA, A.N., red.; ALEKSANDROVA, G.P., tekhn.red.

[Lecture course on electron optics] Kurs lektsii po elektronnoi
optike. Izd.2., ispr. i dop. Moskva, Izd-vo Khar'kovskogo gos.
univ. im. A.M.Gor'kogo, 1961. 361 p. (MIRA 14:9)
(Electron optics)

36947

S/142/61/004/006/012/017
E192/E382

9,4150

AUTHORS: Taranenko, V.P. and Derenovskiy, M.V.

TITLE: Choice of the shape of collector electrodes of the O-type cathode-ray devices operating with electron-energy recuperation

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Radiotekhnika, v. 4, no. 6, 1961, 719 - 721

TEXT: The efficiency of cathode-ray tubes based on the principle of longitudinal interaction can be increased by slowing down the electrons in the collector region, where the electrons from the transit portion of the slowing-down system impinge on the collector whose potential U_K is considerably lower than that of the slowing-down system (U_2). The choice of a suitable electrostatic collector lens is of importance since the normal operation of devices with low secondary-emission currents and high efficiency is largely dependent on it. The electrode system forming the collector lens should have adequate electric

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Choice of the shape of

strength and the size of the transit aperture/distance between the electrodes should be such that the secondary emission from the collector is very low. During the design of a collector lens with anti-dynatron electrode coating (molybdenum disilicide, tantalum carbide, etc.) it was found that the effective reduction of the secondary emission was achieved by introducing a suppressor ring kept at a potential of 0.05 U_K at the input of the collector. The system is illustrated in Fig. 3, where 1 is the suppressor ring, 2 is a mica insulator and 3 is the boundary of the electron beam. Further improvement can be secured by adopting the system shown in Fig. 5, where 1 is the suppressor, 2 is the mica insulator, 3 is the collector, 4 is the trajectory of fast electrons and 5 is the trajectory of slow electrons. The suppressor ring in Fig. 5 eliminates the slow electrons reflected from the transit channel.

There are 5 figures.

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Choice of the shape of

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E192/E382

ASSOCIATION: Kafedra radioperedayushchikh ustroystv
Kiyevskogo ordena Lenina politekhnicheskogo
instituta (Department of Radio-transmitting
Devices of the Kiyev Order of Lenin
Polytechnical Institute)

SUBMITTED: January 14, 1961

Fig. 3:

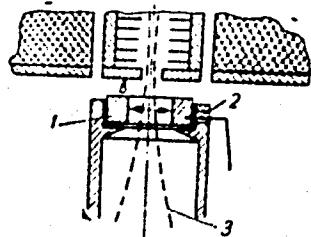
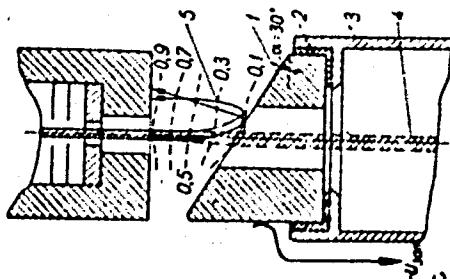


Fig. 5:



L 41850-65 EWT(1)/EPA(s)-2/EWT(m)/EWP(v)/EPA(w)-2/EEC(t)/T/EWP(t)/EWP(k)/EWP(b)
EWA(m)-2/EWA(c) Pz-6/Pf-4/P1-4 IJP(c) JD/HM/AT
ACCESSION NR AM5004494 BOOK EXPLOITATION

S/ 6,0
T+1

Taranenko, Vadim Pavlovich (Candidate of Technical Sciences)

Electron guns (Elektronnyye pushki), Kiev, Izd-vo "Tekhnika", 1964, 178 p. illus.,
biblio. 2,000 copies printed.

TOPIC TAGS: electron gun, electron beam, electron beam welding, UHF equipment

PURPOSE AND COVERAGE: This book describes the methods of designing various types
of electron guns used in UHF equipment and for electron beam welding in a vacuum.
Basic attention is given to the problems of focusing intense electron beams. The
designs of electron guns are examined. The book is intended for researchers,
engineers, and technicians of industrial enterprises and research institutes and
can also be used by students of higher educational institutions.

TABLE OF CONTENTS [abridged]:

Foreword -- 3
Ch. I. Focusing beams and requirements for electron guns -- 5
Ch. II. Methods of calculating and building intense electron beam guns -- 20

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ACCESSION NR AM5004494

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Ch. III. Methods of calculating electron guns -- 77
Ch. IV. Cathodes of intense beam guns -- 115
Ch. V. Design of guns of electronic equipment -- 142
Bibliography -- 175

SUBMITTED: 03 Sep 64

SUB CODE: EC, MM, OP

NR REF Sov: 043

OTHER: 056

cc
Card 2/2

L 40957-65 EEC(b)-2/EWA(h)/EWT(l) PI-4/PJ-4/PM-4/PN-4/PAC-4/PEB JM

ACCESSION NR: AP5006584

S/0142/64/007/006/0649/0654

33
B

AUTHOR: Taranenko, V. P.; Murav'yev, V. V.

TITLE: Enhancing the efficiency of BW oscillators and O-type TW tubes with multistage regeneration

SOURCE: IVUZ. Radiotekhnika, v. 7, no. 6, 1964, 649-654

TOPIC TAGS: BW oscillator, TW tube, O type tube

ABSTRACT: By means of a numerical solution of a set of nonlinear equations, the possible enhancing of efficiency resulting from the use of multistage regeneration in BW oscillators and in conventional and sectionalized TW tubes is evaluated. The effect of space-charge parameter QC, beam-width parameter ha, loss parameter d, and output-section length upon the maximum possible efficiency is investigated. It is found that: (1) Two-stage regeneration and three-stage regeneration with electron deceleration down to the cathode potential can be

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L 40957-65

ACCESSION NR: AP5006584

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regarded as expedient ways for efficiency enhancing; (2) The maximum efficiency obtainable for a sectionalized TW tube with a characteristic length of the output section is approximately equal to that of an ordinary TW tube; (3) With a proper design of the two-stage collector, efficiencies of 40-50% for the BW oscillator and of 50-60% for the TW tube are obtainable; (4) With a three-stage regeneration with electron deceleration down to the cathode potential, efficiencies of 50-60% for the BW oscillator and of 55-68% for the TW tube are obtainable.

Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 02Jun64

ENCL: 00

SUB CODE: EC

NO REF SOV: 005

OTHER: 004

Card 2/2 *mtb*

L 3806-66 EWT(1)/EWA(h) JM
ACCESSION NR: AP5017663

UR/0109/65/010/007/1269/1281
621.385.632.01

334
B3

AUTHOR: Taranenko, V. P.; Shevchenko, V. I.

TITLE: Effect of ripples of the electron beam in the drift channel of a TW tube upon its power and efficiency

SOURCE: Radiotekhnika i elektronika, v. 10, no. 7, 1965, 1269-1281

TOPIC TAGS: TW tube, electron beam

ABSTRACT: Based on J. R. Pierce's relation for the beam ripples and L. A. Vaynshteyn's nonlinear equations for the TW tube (Rad. i elektronika, 1957, 2, 7, 883), new nonlinear equations and initial conditions are developed which permit estimating the effect of the electron-beam outline on the power and efficiency of a TW tube. The new equations were numerically solved on a digital computer for a set of parameters typical of operation of a TW tube. It is found that: (1) The beam-radius ripples reduce the maximum output and maximum efficiency of the

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L 3806-66

ACCESSION NR: AP5017663

TW tube; this reduction is higher for higher ripples; (2) Reduction of the saturation power is higher in the case of a thin ($ha = 0.5$) beam than in the case of a wide ($ha = 1.5$) beam, for the same ripple factor; (3) In the case of a wide rippled beam, the rise of r-f electric field along the tube is higher for higher ha , which is due to a higher efficiency of interaction between the electrons and the r-f wave in the beam loops; (4) The repulsion forces increasing in the nodes of the rippled beam affect the electron bunching; the maximum value of the first current harmonic decreases which, in turn, affects the TW-tube efficiency. Orig. art. has: 7 figures and 32 formulas.

ASSOCIATION: none

SUBMITTED: 20Apr64

ENCL: 00 RCL: 00 SUB CODE: EC

NO REF SOV: 006

OTHER: 001

Card 2/2

ACC NR: AP6036370

(N)

SOURCE CODE: UR/0109/66/011/011/1986/1993

AUTHOR: Taranenko, V. P.; Shevchenko, V. I.

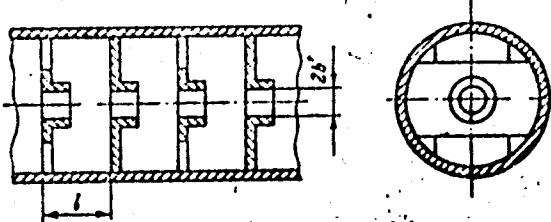
ORG: none

TITLE: Selecting the optimal diameter of the drift channel in high-power broadband TW tubes

SOURCE: Radiotekhnika i elektronika, v. 11, no. 11, 1966, 1986-1993

TOPIC TAGS: TW tube, delay structure, electron tube

ABSTRACT: Based on theoretical data and results of "cold" measurements, the optimal size of drift aperture in a positive-mutual-inductance-type delay structure (see figure) is determined. The aperture diameter ensures an optimal relation between the nondimensional parameters: gain C and space charge QC. Experimental dispersion characteristics and plots of



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ACC NR: AP6036370

coupling resistance vs. phase shift per period, for drift-aperture radii of 1.5, 2, 2.5, 3, and 3.5 mm are shown. Curves of estimated TW-tube efficiency vs. translated aperture radius, for 0.3–0.6 micropervance values, are presented. A final set of curves for the optimal aperture radius permits selecting the drift channel on the basis of specified values of the fill factor, electron-beam micropervance, and experimental coupling resistance. Orig. art. has: 5 figures, 6 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 05Jul65 / ORIG REF: 003 / OTH REF: 003

Card 2/2

TARANENKO, V. S. Cand Vet Sci -- (diss) "Study of ~~the~~ broad experiment in
~~provention~~ ~~of~~ prophylaxis of diseases ~~of~~ animals in Yakutiya." Kuz'minki, 1957. 19 pp
All-Union Inst of Experimental Vet Medicine, All-Union Acad Agr Sci im Lenin),
140 copies (KL, 45-57, 98)

-20-

TARANENKO, V. S. Cand Vet Sci -- (diss) "Study of broad experiments in the prophylaxis of illnesses in calves of Yakutiya." Yakutsk, 1956. 19 pp 20 cm.
(All-Union Inst of Experimental Vet Medicine, Acad Agr Sci im V. I. Lenin), 110 copies
(KL, 7-57, 108)

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ANDREYEV, B.I.; LEDOVSKIKH, S.I.; MALINOVSKIY, E.P.; SAVCHENKO,
N.A.; SKOBYEV, D.A.; TARANENKO, Ye.A.; SERGEYEVA, A.S.,
tekhn. red.

[Distribution of light industry of the U.S.S.R.] Razmeshchene-
nie otraspeli legkoi promyshlennosti SSSR. Moskva, In-t narod-
nogo khoz., 1963. 136 p. (MIRA 16:9)

1. Prepodavateli kafedry ekonomicheskoy geografii Moskovskogo
instituta narodnogo khozyaystva im. G.V.Plekhanova (for all
except Sergeyeva).
(Russia--Manufactures) (Industries, Location of)

TARANENKO, Ye. I.

Translation from: ~~Razrativnyy zhurnal, Geologiya, 1957, Nr 7,~~ 15-1957-8987
p 20 (USSR)

AUTHOR: Itenberg, S. S., Taranenko, Ye. I.

TITLE: Maykopskiy Deposits of the Trans-Terek Plain (May-
kopskiye otlozheniya Zaterechnoy ravniny)

PERIODICAL: Novosti neft. tekhn. Geologiya, 1956, Nr 3, pp 10-14

ABSTRACT: The Maykopskiy section of the trans-Terek plain con-
sists of alternating clays and siltstones (app. 1200
m). On the basis of electric logs, these rocks are
divided into seven units, each having distinctive
electrical properties and corresponding in microfauna
content to definite zones which conform with the sys-
tems of A. K. Bogdanovich or of N. A. Khutseva. A
comparison of the unit boundaries in drill holes has
permitted the author to determine a systematic in-
crease both in the thickness of the Maikopian rocks
and in the number of siltstone layers in an easterly

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15-1957-7-8987

Maykopskiy Deposits of the Trans-Terek Plain (Cont.)

and northeasterly direction, due to a great downwarping in this part of the region and to increased nearness to the source of clastic supply. The great mobility of the eastern and northeastern part of the trans-Terek plain led to the displacement of bedding planes of the Maykopskiy rocks, to their overlap by younger deposits, and to the formation of flexures which produced gently inclined structures of the platform type.

Card 2/2

N. N. Barkhatova

TARANENKO, Z.I.

Decelerating waveguide system for operating in the band of positive dispersion. Izv. vys. ucheb. zav.; radiotekh. no.3:309-313 My-Je '58.
(MIRA 11:7)

1. Rekomendovana kafedroy radioperedayushchikh ustroystv Kiyev'skogo
ordena Lenina politekhnicheskogo instituta.
(Wave guides) (Microwaves)

L 31912-66 EWT(1) JM
ACC NR: AP6010732

SOURCE CODE: UR/0142/66/009/001/0126/0130

AUTHOR: Taranenko, Z. I.; Poygina, M. I.

44

B

ORG: none

TITLE: Frequency characteristics of a combination TW tube in the extreme cases
of matching the tube sections [Reported at the 20th All-Union Scientific
Conference of NTORIE, Moscow, May 1964]

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 1, 1966, 126-130

TOPIC TAGS: ~~TW-tube, broadband TW-tube~~, TRAVELING WAVE TUBE,
FREQUENCY CHARACTERISTIC

ABSTRACT: A linear analysis is presented of the gain-frequency characteristics
of a sectionalized TW tube for different ratios of tube parameters (velocity b,
gain C, and space charge $4QC$). The tube has a combination delay system
consisting of two sections: (a) a broadband helix and (b) a structure with

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UDC: 621.385.632

L 31912-66
ACC NR: AP6010732

favorable heat-transfer characteristics. The interstage coupling is effected by the electron beam only; the drift-segment length between the sections is assumed to be zero. The TW-tube gain was calculated on a "Kiev" digital computer according to the equations given in the TW-tube review (IVUZ-Radiotekhnika, 1958, v. 1, no. 5, 599). Plots of tube gain vs. the second-section-velocity parameter are shown. It is found that, under weak-signal conditions, the use of the combination delay system permits increasing the range of the velocity parameter, in the second stage, by 1.5 times or better, with a loss in gain of 3 db or less; the latter phenomenon is due to straightening out the current frequency characteristic at the second-section entrance. By using a higher coupling resistance system in the first stage, considerable enhancing of the overall tube gain is possible. Orig. art. has: 6 figures.

SUB CODE: 09 / SUBM DATE: 20Apr65 / ORIG REF: 003 / OTH REF: 001

Card 2/2

81111

9.1300

S/142/60/000/01/003/022
E140/E463

AUTHOR: Taranenko, Z.I.

TITLE: Folded Waveguide as a Delay System with Positive Dispersion

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Radiotekhnika, 1960, Nr 1, pp 30-39 (USSR)

ABSTRACT: This paper was presented at the Third All-Union Conference of the USSR Defence Ministry on Electronics. Kiyev, 1959. *

The author considers folded rectangular waveguides with holes for the passage of electrons from the point of view of suitability as delay system for microwave amplifiers, i.e. the absence of self-excitation as backward-wave oscillators. Two cases are considered, the holes are all of the same diameter (Fig 1a) and holes of two different diameters alternately (Fig 2b); the H₀₁-wave propagates in the waveguide. The dispersion curves of both systems consist of sections with alternating positive and negative dispersions. The sections with positive dispersion are used for amplification; self-excitation for the backward wave depends on the coupling impedance to the sections with negative dispersion. The author then

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Folded Waveguide as a Delay System with Positive Dispersion

derives the expressions for the dispersion curves and the coupling impedances. The quantity ν defined in Eq (17) must be less than unity. The finite phase difference of the fields at opposite sides of the openings is difficult to take into account but probably leads to additional reduction of the fundamental field at the axis of the system for very short waves. The calculations for the waveguides with alternating openings of different diameters is based on the assumption that the difference in radii is very great. In an actual system with finite dimensions, there is a superposition of the waves of the two solutions. Measurements were therefore made on a physical model using a dielectric probe, described in Ref 4 and 5, and carried out at the longest wave of the dispersion curve. It was found experimentally that with ratio $r_2/r_1 \geq 2$ the wave corresponding to the system with alternating openings predominates. In systems with identical openings, the quantity $R\lambda^2$ is always substantially less than in the longest waveband where the dispersion is negative. For the system with

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E140/E463

Folded Waveguide as a Delay System with Positive Dispersion

alternating openings, the band of negative dispersion is shifted towards shorter waves. Due to the weakening of the field at higher frequencies, the waveguide with alternating openings is superior from the point of view of suppression of the undesired backward wave. There are 5 figures, 2 tables and 5 Soviet references.

SUBMITTED: April 4, 1959

*[Annotation: Correctly Third All-Union Conference on Radio Electronics, Kiyev,
of the Ministry of Higher Education (MVO)]

Card 3/3

X

TARANENKO, Zoya Il' nichna, kand. tekhn. nauk; TROKHIMENKO,
Yaroslav Karpovich, kand. tekhn. nauk; AKALOVSKIY, I.V.,
kand. tekhn. nauk, retsenzent

[Delay systems] Zamedliaiushchie sistemy. Kiev, Tekhnika,
1965. 306 p.

TARANENKOV, N.

There are more than one thousand of us. Za rul. 17 no.12:6
D - '59. (MIRA 13:4)

1. Nachal'nik avtomotokluba Dobrovolskogo obshchestva
sodeystviya armii, aviatsii i flotu, Khar'kov.
(Kharkov--Juvenile drivers)

TARANETS, A., inzh.

Drying apparatus operating on liquid fuel. Stroitel' no. 9:11 S '59.
(Boilers) (MIRA 13:3)

YEGOROV, A.S.; MYAKOTA, L.I.; POLUNIN, I.P.; TARANETS, A.M.

Improving the design of ionometers. Trudy UkrNIISP no.5:129-
196 '59. (MIRA 16:11)

LASHKAREV, Georgiy Vladimovich; TARANETS, Aleksey Mikhaylovich;
FOMENKO, Vladlen Stepanovich; KILLEROG, N.M., red.;
MATVEYCHUK, A.A., tekhn. red.

[New sources of electric energy] Novye istochniki elektri-
cheskoi energii. Kiev, Izd-vo Akad. nauk USSR, 1962. 85 p.
(MIRA 16:4)

(Photoelectric cells) (Fuel cells) (Thermoelectricity)

TARANETS, A.V., inzh.; ANDREYEV, V.Ye., inzh.; GOLUB', G.F., inzh.

Utilization of permanent buildings and structures in the
construction of coal mines. Ugol.prom. no.5:11-15 S-0 '62.
(MIRA 15:11)

1. Donetskiy nauchno-issledovatel'skiy institut nadzorakhnogo
stroitel'stva.

(Mining engineering)

ZOLOTAREVSKIY, D.B., inzh.; TARANETS, A.V., inzh.; LAVROV, V.A., inzh.

Welding 35GS reinforcement steel during the building of tower-type headframes in winter conditions. Shakht. stroi. 9 no. 12: 9-12 D '65. (MIRA 18:12)

1. Donetskij politekhnicheskiy institut (for Zolotarevskiy).
2. Kombinat Donetskshakhtostroy (for Taranets, Lavrov).

TARANETE, S. A.

A. B. Борисов
Анализ для консультации патента

9 часов
(с 10 до 16 часов)

B. B. Григорьев,
B. B. Соловьев
Генератор звукового типа суперпозиции частот

A. B. Ширинов,
B. B. Борисов,
A. B. Абрамович
Формы звука с экраном электронных лучей 197
или отпечаток фотографии в кинотеатографии

A. A. Головин,
A. A. Григорьев
Новая система генерирования звуковых

B. A. Борисов,
A. A. Головин,
B. B. Борисов
Применение ферромагнитных материалов в
сочетании с ПМК в излучательных и
сборочных конструкциях

30

10 часов
(с 10 до 16 часов)

C. B. Григорьев,
B. B. Соловьев
Внешний шланг со разъемами для подачи сжатого
воздуха и газов

M. B. Абрамова
Способления промышленной разработкой стеклянных
изделий газоудаляющие трубы из стекла
изнутри и снаружи

B. B. Борисов,
B. B. Григорьев
Металлокерамическая магнетиковая линза для линзы
излучения трубки

B. B. Головин,
B. B. Григорьев
Способ получения плавленой стеклянной
го трубки из прямой линии

10 часов
(с 10 до 16 часов)

Report submitted for the General Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications Inc. A. G. Papov (РЭСИ), Moscow,
8-10 June, 1957

TARANETS, D.A., inzh.

Study of the effect of factors causing a decrease in the quality of
image reproduction in a television motion picture projector with
steady motion of the film. Trudy LEIS no.2:166-178 '57.

(Television)

(MIRA 15:5)

AKSENTOV, Yu.V.; VEREVKIN, N.S.; ZHEBEL', B.G.; ZLOTNIKOV, S.A.;
KOLIN, K.T.; KONDRAT'YEV, A.G.; MINENKO, Yu.G.; OINOL'KO,
V.V.; TARANETS, D.A.; SHMAKOV, P.V., red.; VENGHENYUK, L.I.,
red.; KARABILOVA, S.P., tekhn.red.

[Television; general course] Televidenie; obshchii kurs. Pod
red. P.V.Shmakova. Moskva, Gos.izd-vo lit-ry po voprosam sviazi
i radio, 1960. 391 p. (MIRA 13:12)
(Television)

AKSENT'OV, Yu.V.; GOL'DIN, A.A.; DZHAKONIYA, V.Ye.; DUSHKEVICH, N.I.;
YERGANCHIYEV, N.A.; YEFIMKIN, V.I.; LIPAY, I.N.; MINENKO, Yu.G.;
ODNOL'KO, V.V.; PEREVEZENTSEV, L.T.; TARANETS, D.A.; SHAKOV,
P.V., prof.; KUKOLEVA, T.V., red.; BELYAYEVA, V.V., tekhn. red.

[Theory and practice of color television] Teoriia i praktika
tsvetnogo televideniya. Moskva, Sovetskoe radio, 1962. 661 p.
(MIRA 16:1)

(Color television)

MURAV'YEV, F.M., kand.tekhn.nauk; TARANETS, G.L., inzh.

Method of determining the average service life of ties on the railroad track. Trudy RIIZHT no.30:3-93 '61. (MIRA 15:12)
(Railroads—Ties)

~~ZHE~~YULYA,R.D.; TARAMETS,M.P.; TKACHENKO,P.I.

Improving the seed and strain qualities of potatoes. Trudy VNIISP
no.4:52-84 '54. (MIRA 8:12)
(Potatoes)

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29769

Author : Taranets, M.P., Khromov, V.F., Stolyarova, T.M.

Inst : -----

Title : An Experiment to Improve the Quality of Seed Potatoes

Orig Pub : Kartofel', 1957, No 2, 51-52.

Abstract : The experiment is described which was made at the Sovkhoz im. Komintern (in Penzenskaya Oblast') in 1952 to improve the quality of seed potatoes by its cultivation from select tubers on bottom-land plots. On a field patch where one planted unselected material the yield amounted to 75 centners per ha., whereas on bottom land where tuber selection was applied it came to 170 centners per ha. There was 58% tubers with degeneration symptoms in the first case and only 6% in the second.

Card 1/1

USSR/Cultivated Plants. Potatoes, Vegetables, Melons. II

Abs Jour : Ref Zhur-Biol., No 15, 1956, 68161

Author : Taranets, N. P.

Inst : All-Union Scientific Research Institute
of Spirit and Vodka Industry.

Title : Improving Potato Seed Cultivation in the
Zones of Spirit Factories.

Orig Pub : Byul. nauchno-tekh. inform. Vsos. n.-i.
in-t spirit. i likoro-vodochn. prom-sti, 1957,
No 3, 73-76

Abstract : Collaborating with the sovchoz imeni Komin-
tern in the Penza Oblast', the Institute con-
ducted a production evaluation of the system
of intra-economy potato seed cultivation, which
includes improvement nurseries, seed plots, and

Card : 1/2

USSR/Cultivated Plants. Potatoes, Vegetables, Melons, Etc.

Abs Jour : Ref Zhur-Biol., No 15, 1956, 68161

production plantings. After a painstaking selection of tubers from the best parts of potatoes, the yield increased by 111 percent in 1956. The number of diseased and degenerated tubers dropped to 13.5 percent. When the selected material was grown on a bottom-land plot, the harvest increased by 127 percent, and the number of diseased and degenerated tubers decreased to 6 percent. -- O. A. Gorbunova

Card : 2/2

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TARANETS, M.P.; MATVYEV, Ye.P.; KORABEL'NIKOV, M.B.; PARAMONOV, I.N.

Using organomineral mixtures for potatoes on the "Progress"
State Farm, Zemledelie 5 no. 4:47-49 Ap '57. (MLRA 10:6)
(Penza Province--Potatoes) (Fertilizers and manures)

UEL'SON, V.; USPENSKIY, V.; FRUMKINA, Yu.; TARANETS, N. (Kiyev);
PROSHIN, A.

The inspection of red corners is in progress. Sov. profsoiuzy
18 no.24:29-30 D '62. (MIRA 16:1)

1. Instruktor TSentral'nogo komiteta professional'nogo soyusa rabochikh lesnoy, bumashnoy i derevoobrabatyvayushchey promyshlennosti (for Uel'son).
2. Instruktor TSentral'nogo komiteta professional'nogo soyusa rabochikh shelesnodorozhnogo transporta (for Uspenskiy).
3. Starshiy redaktor metodicheskogo otdela TSentral'nogo Doma rabotnikov shelesnodorozhnikov (for Frumkina).
4. Neftpererabatyvayushchiy zavod imeni XIII partiynogo s'ezda, g. Baku (for Proshin).

(Community centers)

DOMAREV, D.S.; TARANETS, V.I.; MAKAROV, V.N.

Origin of ores of the upper series in the Yakovlenskoye deposit of
the Kuruk Magnetic Anomaly. Sbor. nauch.trud. KGRI no.20(3):57-60
'63. (MIRA 16:9)

MARTYNNENKO, L.I.; ZINTSOVA, Ye.S.; MAKAROV, V.N.; KUZNETSOVA, M.N.;
KONDRAT'YEVA, D.N.; SOVA, N.G.; TARANETS, V.I.; DOMAREV, D.S.

Stratigraphy of the iron ore complex in the Yakovlevsk deposit.
Sbor.nauch.trud.KGRI no. 21:24-29 '63. (MIRA 17:7)

MARTYNNENKO, L.I.; MAKAROV, V.N.; KUZNETSOVA, M.N.; SOVA, N.G.;
TAFANETS, V.I.; DOMAREV, E.S.; KOMRAT'YNA, D.N.

Association of minerals in the group of iron oxides in rocks
and ores of the Yakovlevo deposit in the Kursk Magnetic Anomaly.
Sbor.nauch.trud. KGRI no. 21:29-36 '63. (MIRA 17:7)

MAKAROV, V.N.; KONDRAT'YEVA, D.N.; TARANETS, V.I.

Mineralogy of supergene chlorites from shales of the
Yakovleva deposit in the Kurs' Magnetic Anomaly. Sbor.nauch.
trud. KGRI no. 21:39-47 '63. (MIRA 17:7)

MAKAROV, V.N. (Makarov, V.N.), TARANETS, V.I. (Taranets, V.I.)

Studying chlorites from the Upper series of the Yakovlevskoye
iron ore deposit in the Kursk Magnetic Anomaly. Dep. AN SSSR
no.10:1363-1365 '64.
(NICA 17:12)

1. Krivorozhskiy gornorudnyy institut. Predstavлено академиком
АН УАССР В.Г. Бондарчуком (Bondarchuk, V.H.).

TARANETS, Ye.

Moving-picture Projection

Enthusiast Kinomekhanik no. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unc1.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910012-1

TARANEUKO, I.,

B. N. Kholodkovskii, Caoutchouc and Rubber 1938, No. 2,
59-60

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910012-1"

TARANICHEV, N.A.

Using Newton's method to process the results of geodetic
measurements. Geod. i kart. no.4:22-27 Ap '64.
(MIRA 17:8)

TARANICHIN, Petr Fedorovich; SHLYK, M., tekhn.red.

[The main trend] Glavnoe napravlenie. Moskva, Mosk.rabochii,
1960. 87 p. (MIRA 14:4)
(Moscow--Machinery industry)

KIZUB, F.; SHCHEKUTEV, Ya.; REPICHEV, A.; KOROSTELEV, I.; MARTYNNENKO, P.
TARANIK, F.; TYRINOV, P.; POPOVKIN, N.

Hidden potentialities for the economy of working time. Den. 1
kred. 19 no.3:50-62 Mr '61. (MIRA 14:3)

1. Zamestitel' glavnogo bukhgaltera Ukrainskoy respublikanskoy kontory Gosbanka (for Kizub). 2. Glavnyy bukhgalter Ryazanskoy oblastnoy kontory Gosbanka (for Shchekutev). 3. Glavnyy bukhgalter Starorusskogo otdeleniya Gosbanka Novgorodskoy oblasti (for Repichev). 4. Glavnyy bukhgalter Gul'kevichskogo otdeleniya Gosbanka Krasnodarskogo kraya (for Korostelev). 5. Zamestitel' glavnogo bukhgaltera Krasnoyarskoy krayevoy kontory Gosbanka (for Martynenko). 6. Glavnyy bukhgalter Pereyaslav-Khmel'nitskogo otdeleniya Gosbanka Kiyevskoy oblasti (for Taranik). 7. Glavnyy bukhgalter Tonshayevskogo otdeleniya Gosbanka Gor'kovskoy oblasti (for Tyrinov). 8. Glavnyy bukhgalter Novo-Ukrainskogo otdeleniya Gosbanka Kirovogradskoy oblasti.

(Banks and banking--Accounting)
(Machine accounting)

TRAN IN

3960. DETERMINATION OF TEMPERATURE FIELD IN GAS FLOWING OVER A SYSTEM OF ELECTRIC COILS. Seleznev, E. and M. V. Tsvetkov. Institute of Thermogasdynamic (P.N. Lebedev, U.S.S.R., Moscow). The comparative simple method described enables the temperature field in the systems of turbine blades to be determined in the working stage with a loss of time. A study of the data obtained and some analytical calculations of the problem of temperature distribution over a single stage shows maximum error in temperature determination at the various points to be 1-3%. C.E.A.

TARANIN, A.F.

SELEZNEV, K.P., kand. tekhn.nauk; TARANIN, A.L., inzh.

Effect of certain factors on temperature distribution in a gas-turbine
rotor. Energomashinostroenie 4 no.1:21-26 Ja '58. (MIRA 11:1)
(Gas turbines) (Heat--Transmission)

BULANOV, N.G.; KUPIRIANOVA, L.V.; TSUKERMAN, R.V.; BUDNYATSKIY,
D.M.; GEL'ITMAN, A.E.; KOSTOVETSKIY, D.L.; PISKAREV, A.A.;
TARANIN, A.I.; KORNEYEV, M.I.; MOISEIEV, G.I.; KENDYS;
P.N.; KIRILOV, Ye.F.; RUBIN, M.V.; SOKLOV, N.V.;
SHCHERBAKOV, V.A.; KOVALEV, N.N.; BELOV, A.A.; SEREBRYAKOV,
G.M.; SATANOVSKIY, A.Ye., red.; RODDATIS, K.F., red.;
KORKHOVA, V.I., red.; CHEREPENNIKOV, B.A., red.; KOGAN,
F.L., tekhn. red.

[Manufacture of power machinery abroad] Energeticheskoe ma-
shinostroenie za rubezhom. Moskva, 1961. 583 p.

(MIRA 16:8)

1. Moscow. TSentral'nyy institut nauchno-tehnicheskoy in-
formatsii mashinostroyeniya.

(Electric power plants--Equipment and supplies)

SELEZNEV, K.P., kand. tekhn. nauk, dotsent; TARANIN, A.I., inzh.;
PLEKHANOV, V.A., inzh.

Use of electrical modeling in the determination of temperature
fields in the components of steam and gas turbines.
Energomashinostroenie 9 no.10:1-5 0 '63. (MIRA 16:10)

GOKHMAN, D.B., inzh.; TARANIN, A.I., inzh.

Gas turbine power systems for covering peak loads. Energomashinostroenie
9 no.12:37-38 D '63. (MIRA 17:1)

ЛАНДЛЕВ, К.И., доктор техн. наук, проф.; ЧИЧИГИН, А.А., инж.,
канд. техн. наук, проф.; ТЫРЫШКИН, В.С., канд. техн. наук, проф.

[Thermal condition of the rotors and cylinders of steam
and gas turbines] Teplovoe sostoyanie rotorov i tsilindrov
parovykh i gazovykh turbin. Lektsii, mashinostroenie,
Tsvet. 262 p.
(MIR) 17:11)

TARANIN, N.A.

Intrapericardial injury of the aorta. Vest. khir. 94 no.2:10¹
F '65. (MFA 18:5)

1. Iz khirurgicheskogo otdeleniya (zav. - N.A. Tarinin) mediko-sanitarnoy chasti (glavnnyy vrach - L.N. Lomakina) g. Kotovsk Tambovskoy oblasti.

TARANIE, Halina

Helminths in *Triturus vulgaris* L. in the Imblin region. *Wiadomosci parazytyczne*, Warsz. 4 no.5-6:675; Engl. transl. 676 1958.

1. Z Zakladu Parazytologiczno-Chor. Inw. MBR w Imblinie.
 • *(HELMINTH INFECTIONS,
 in toads (Pol))*
 • *(PARASITES AND TOADS, dis.
 helminth infect. (Pol))*

TARANKOV, V. I., Cand Agr Sci -- (diss) "Hydrological role of oak forests thinned out with maintenance passages of varying intensity." Vladivostok, 1960. 23 pp; 1 page of tables; (Academy of Sciences USSR, Siberian Division, Dal'nevost affiliate im V. L. Komarov); 150 copies; price not given; (KL, 25-60, 137)

TARANKOV, V. V.

Tarankov, V. V. "Problems of increasing the effectiveness of building and restoration of marine drillings," Azerbaydzh. neft. khoz-vo, 1948, No. 11, p. 20-22

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

METAKSA, P.I.; TARANOV, V.V.; ASSAM-MURI, A.O., redaktor; TAUMIN, I.M.,
redaktor; ~~MELOD~~, Ya.M., tekhnicheskiy redaktor.

[Submarine oil well drilling] Stroitel'stvo neftianykh skvashin v
more. Moskva, Gos.nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi
lit-ry, 1954. 29 p. (MIRA 8:4)
(Oil well drilling, Submarine) (Petroleum in submerged lands)

TARANKOV, V. V.

AID F - 564

Subject : USSR/Mining

Card 1/1 Pub. 78 - 1/22

Author : Tarankov, V. V.

Title : Shortcomings in operational planning in the petroleum producing Trusts

Periodical : Neft. Khoz., v. 32, #8, 1-6, Ag 1954

Abstract : Broad discussion of economical planning of oil field operation based on the analysis by B. Ya. Gombiner published in Neft. Khoz., #12, 1953 under the same title. The discussion concerns the importance of utilization of the active, inactive and "stand-by" oil wells. The production costs of various methods of operation are compared. The productivity of labor is discussed.

Institution : None

Submitted : No date

Subject : USSR/Mining

AID P - 3814

Card 1/1 Pub. 78 - 2/25

Author : Tarankov, V. V.

Title : Eliminate shortcomings in the organization of drilling works

Periodical : Neft. khoz., v. 33, #11, 10-13, N 1955

Abstract : The author takes part in the general discussion on the subject of better and more efficient organization of oil well drillings, referring specifically to articles of M. A. Saakov, M. A. Aliyev, R. A. Ioannesyan, Ya. A. Shvarts and N. M. Nikolayevskiy published in this journal in #11, 1953, #7, 1954, and #3, 1955.

Institution : None

Submitted : No date

TARANKOV, V.

An aid for education of personnel in economics. ("Technical economic analysis in the petroleum production industry." M.M. Brenner. Reviewed by V. Tarankov). Azerb.neft.khos. 35 no.5:35-36 My '56. (MLRA 9:10)

(Petroleum industry) (Brenner, M.M.)

MURADOVA, Shukra Mamed kysy; TARANOV, V.V., red.

[Resources for offshore oil well drilling; practices of the
No.1 boring unit of the Neftyanaya Kamni region] Reservy
burovyykh rabot na more; opyt raboty kontory burenija No.1
Neftyanaya Kamni. Baku, Azerbaidzhanskoe gos.izd-vo neft. i
nauchno-tekhn.lit-ry, 1957. 125 p. (MIRA 10:12)
(Neftyanaya Kamni region--Oil well drilling, Submarine)

TARANKOV, Vladimir Vasil'yevich; TAUBE, Vladimir Vasil'yevich; KORSHUNOV, I.V.,
red.; GONCHAROV, I.A., red.izdatel'stva.

[Potentials for increasing labor productivity in the petroleum
industry] Rezervy rosta proizvoditel'nosti truda v neftedobyvaiushchei
promyshlennosti. Baku, Azerbaidzhanskoe gos.izd-vo neft.i nauchno-
tekhn.lit-ry, 1957. 99 p. (MIRA 10:12)
(Petroleum industry)

TARANOV, V.V.; TAUBE, V.I.; SHAPOVALOV, A.G.

Planning the rate of drilling operations. Left.khos.35 no.3:1-6
Mr '57. (MLRA 10:4)
(Oil well drilling)

TARANKOV, V.V.

Utilize all means to increase drilling speeds. Azerb.neft.khoz.
36 no.2:44-48 P '57. (MLRA 10:4)

(Oil well drilling)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910012-1

Tarankov, V.V.
TARANKOV, V.V.

Economic evaluation of the quality of petroleum. Azerb. neft.khoz.
36 no.9:46-47 S '57. (MIRA 11:2)
(Petroleum industry)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910012-1"

IMAN-ZADE, Rayya Madzhaf kysy; KULIYEV, S.M., prof., doktor tekhn.nauk,
red.; TARANKOV, V.V., red.; BAGDATLISHVILI, D.D., red.izd-va;
AGAYEVA, Sh., tekhn.red.

[Basic economic problems in the development of Azerbaijan
offshore oil fields] Osnovnye voprosy ekonomiki razrabotki
morskikh neftianykh mestorozhdenii Azerbaidzhana. Baku, Izd-vo
Akad.nauk Azerbaidzhanskoi SSR, 1958. 199 p. (MIRA 12:12)
(Azerbaijan--Oil well drilling, Submarine--Costs)

POPYRIN, L.S., kand.tekhn.nauk; YEFIMOV, N.T., inzh.; TARANOV, A.G., inzh.;
YEFIMOVA, I.S., inzh.

Selection of optimum design parameters and networks for connecting
regenerative heaters of large condensing electric power plants.
Elek.sta. 34 no.2:20-26 F '63. (MIRA 16:4)
(Boilers) (Steam power plants)

14(5)

SOV/92-59-1-19/36

AUTHOR: Taranov, A.I., Chief Engineer

TITLE: Combination-Valve Unit for Casing Strings (Kombinirovanny klapan dlya
obsadnykh kolonn)

PERIODICAL: Neftyanik, 1959, Nr 1, p 24 (USSR)

ABSTRACT: The author states that reverse valves which reduce the load on drilling tools are used at present in sinking heavy casing pipes into deep wells. The use of these valves makes it necessary to pump some liquid into the pipe column. This operation takes much time. In order to facilitate the operation and to reduce the time it takes, the author, assisted by M.P. Antonova and M.A. Malygin, has developed a new combination valve unit ensuring the automatic filling of the pipe column with the liquid present in the well. This unit consists of the main valve, a number of auxiliary valves, and parts described by the author and shown in Fig. 1 and Fig. 2. The combination valve unit is simple in construction and can easily be built of cast iron and steel by a shop of the exploratory organization. The reverse action valve unit of the system under discussion has been successfully tested in sinking 5-1/2" production string into a well drilled by the Kolpashevo prospecting office. There are 2 figures, one showing the position of valves at the time when the casing string is filled with the drilling

Card 1/2

Combination Valve Unit (Cont.)

SOV/92-59-1-19/35

mud automatically, and the other showing the position of valves during the cementing operation.

ASSOCIATION: Kolpashevskaya kontora razvedochnogo bureniya (The Kolpashevo Prospecting Office)

Card 2/2

ACC NR: AT7003587

SOURCE CODE: UR/3116/66/280/000/0140/0151

AUTHOR: Taranov, A. I.

ORG: none

TITLE: Review of some oblique sounding systems and selection of a system of practical applications

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. Trudy, v. 280, 1966. Issledovaniya magnitno-ionosfernykh vozmushcheniy i rasprostraneniya radiovoln v Arktilke i Antarktike (Studies of magnetic and ionospheric disturbances and radio wave propagation in the Arctic and Antarctic), 140-151

TOPIC TAGS: automatic control system, frequency control, frequency selection, oblique sounding system

ABSTRACT: The problems of some systems of oblique sounding are reviewed. It is stated that the oblique sounding systems are merely an extension of the vertical sounding method. While the vertical sounding method is in relatively wide use, the oblique sounding method suffers from a number of limitations, such as the great

Cord 1/2

ACC NR: AT7003587

distances between the reception and transmission points and absence of a communication channel between them. A number of systems are discussed: 1) a manual discrete frequency system; 2) an automatic control even frequency system; 3) an automatic discrete frequency system; 4) selection of an oblique sounding system; 5) an alternating frequency generator; 6) a quartz-crystal clock; 7) electromagnetic junction box control; 8) the transmitter; 9) the receiver; and 10) the indicator.

Orig. art. has: 4 figures and 1 table.

[AM]

SUB CODE: 17/SUBM DATE: none/OTH REF: 006/

2/2

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